

Upsilon Topical Group prep for tracking review

Tony Frawley & Marzia Rosati
General Meeting July 22, 2016

Issues to be addressed

Background estimates

Maria is revisiting the background estimates for the dielectron Upsilon measurement

Propagate estimates to mass plots, R_{AA} statistics

Marzia estimates a couple of weeks

Issues to be addressed

Intermediate tracker effect on Upsilon mass resolution

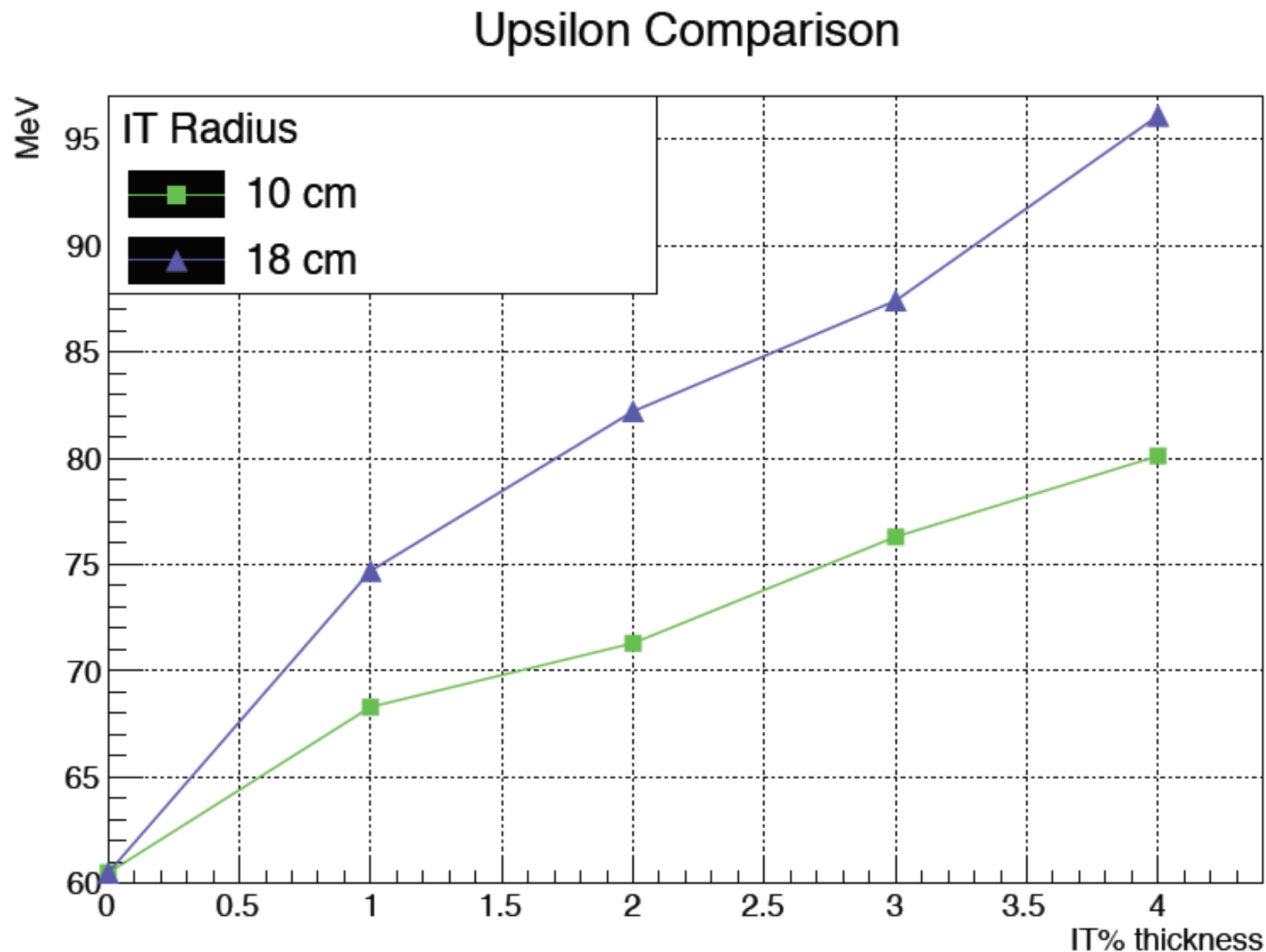
The intermediate tracker (IT) mass affects the mass resolution

The size of the degradation depends on the details of the thickness and placement of the IT

Closer to the beam pipe is better.

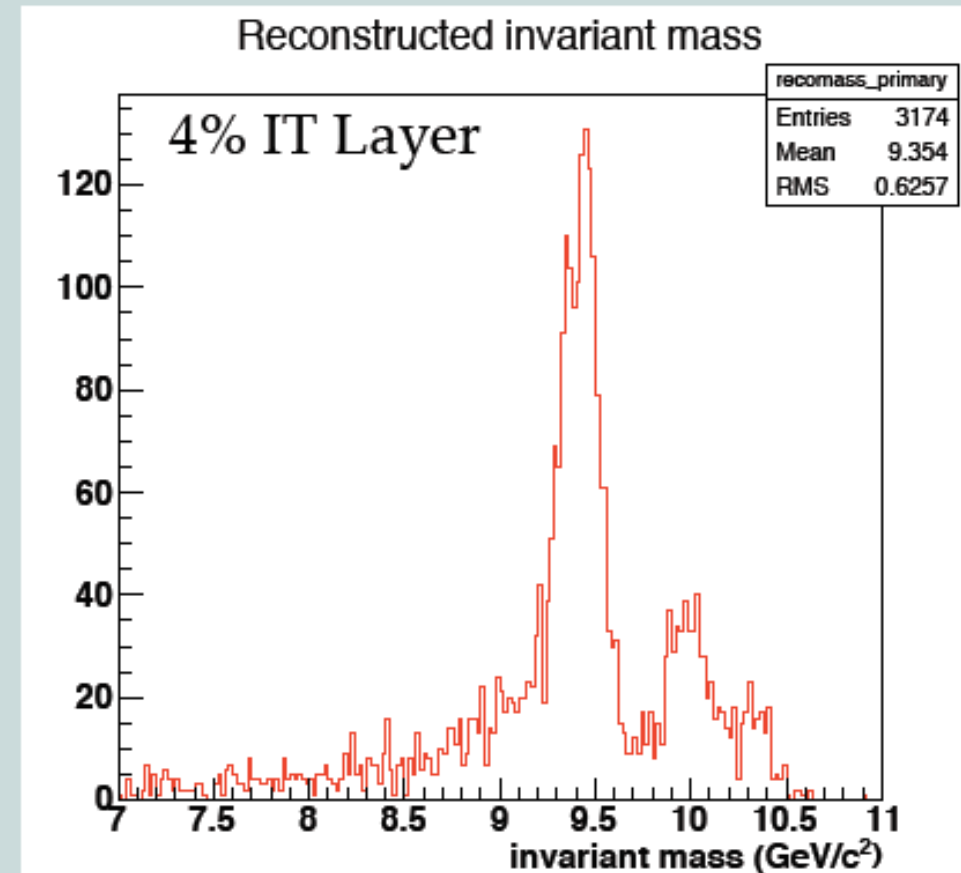
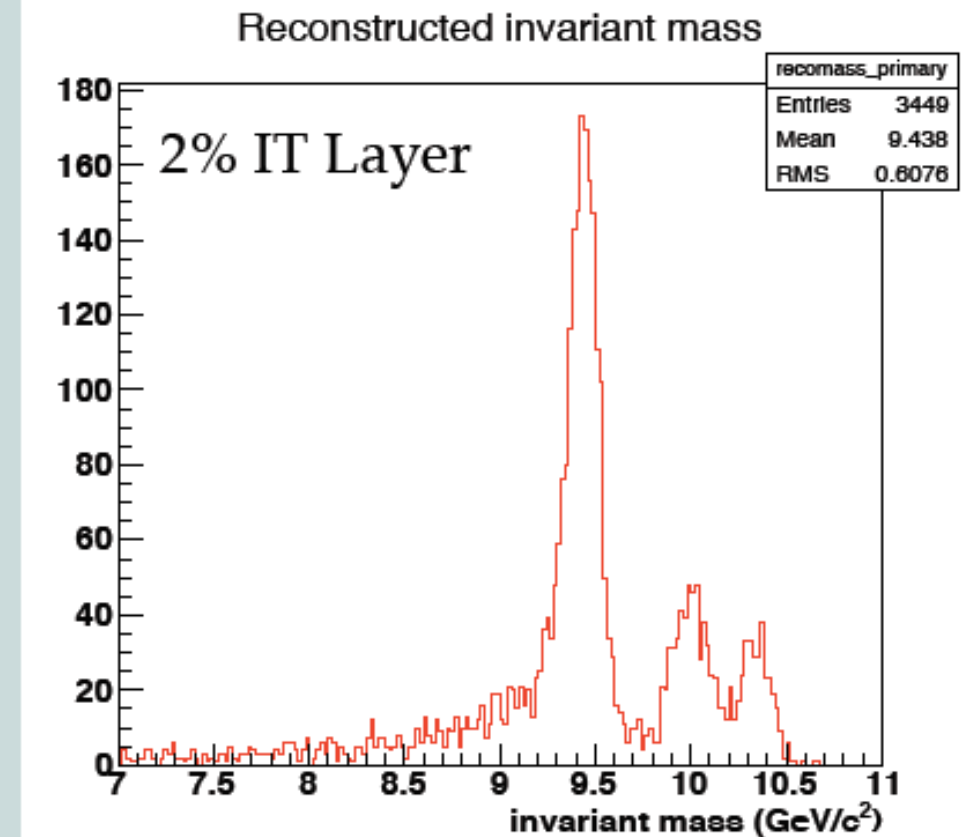
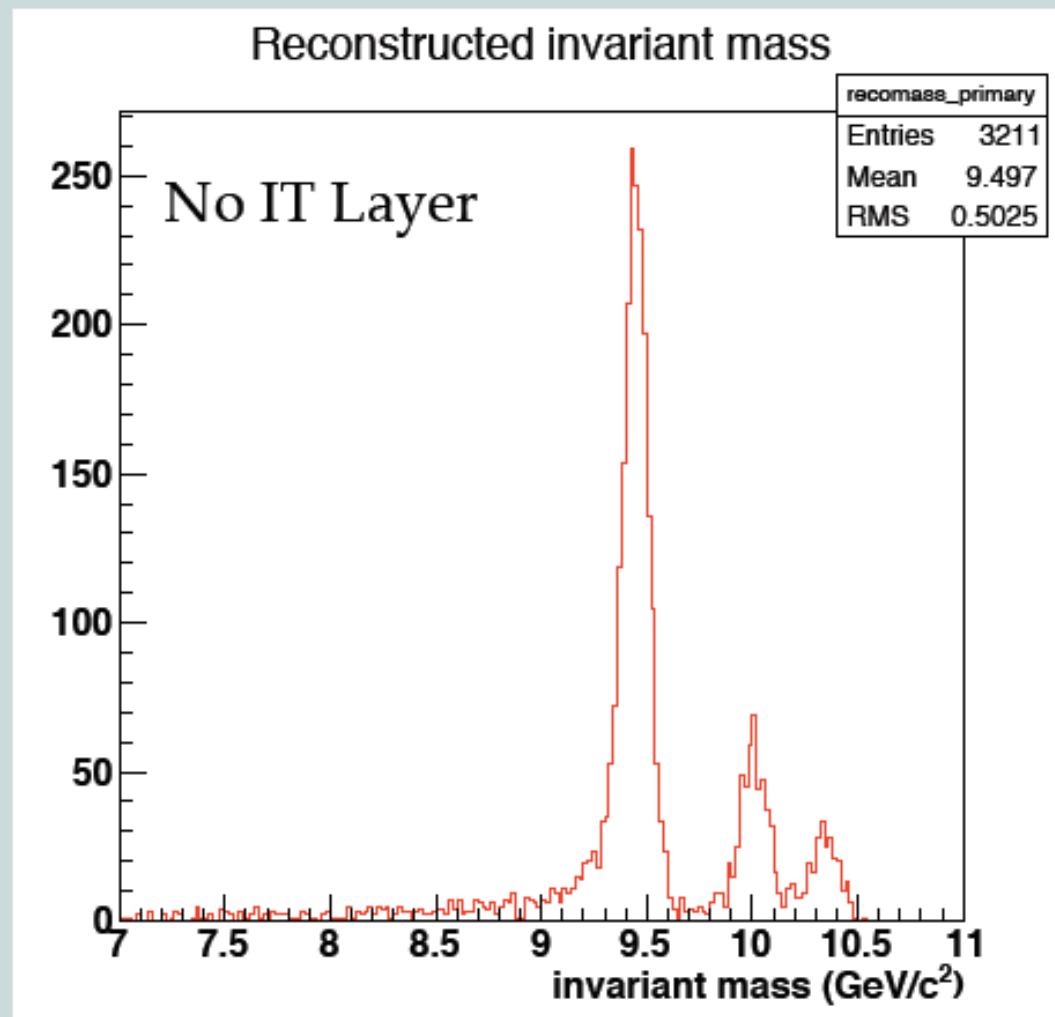
IT effect on mass resolution

From Krista Smith, tracking meeting July 15. Single layer of varying thickness at two radii.



IT effect on mass resolution

Upsilon 1s, 2s, 3s 18 cm



Plans

We are planning to have a meeting next Tuesday to discuss background estimates.